abcam

ab183345

Anti-CD42b antibody [SP219]

Anti-CD42b antibody [SP219] (ab183345) is a rabbit monoclonal antibody detecting CD42b in **Flow Cytometry (Intra), IHC-P, IHC-Fr**. Suitable for **Human, Mouse**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency
- Over 10 publications

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	SP219
Purification technique	Affinity purification Protein A/G
Concentration	0.113 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS by protein A/G.

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/20 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Species	Human
Dilution info	1/20 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information GP1BA

Function	GP-Ib, a surface membrane protein of platelets, participates in the formation of platelet plugs by binding to the A1 domain of vWF, which is already bound to the subendothelium.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-CD42b antibody [SP219] (ab183345) is a rabbit recombinant monoclonal antibody and is validated for use in Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr) in Human, Mouse samples.

Collaboration
Anti-CD42b [SP219] (ab183345) is a clone from the portfolio of Spring Bioscience (Roche) SP clones which have been optimised for immunohistochemistry (IHC).

Trusted by the scientific community
Anti-CD42b [SP219] (ab183345) was first used in a scientific publication in 2014 and has been cited over 10 times in peer-reviewed journals.

Reviewed by scientists
Anti-CD42b [SP219] (ab183345) has over 5 independent reviews from customers.

Specificity confirmed
The specificity of Anti-CD42b antibody [SP219] (ab183345) has been confirmed by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) testing in GP1BA Knockout Mouse Spleen samples.

Other related products
We have a range of other formats of antibody clone [SP219] also available for your convenience: ab183345, Carrier free - ab240268, Carrier free - ab246709, ab279482, PE - ab305653, APC - ab305654, HRP - ab305655, Alkaline Phosphatase - ab308983, Alexa Fluor® 594 - ab310755, Alexa Fluor® 568 - ab312777, Alexa Fluor® 555 - ab314255, Alexa Fluor® 488 - ab314271, Alexa Fluor® 647 - ab314946, Alexa Fluor® 750 - ab321275

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

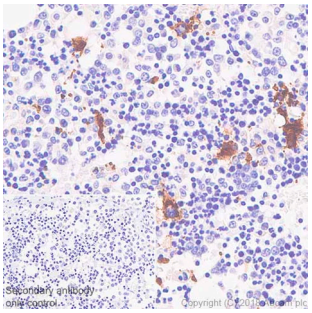
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

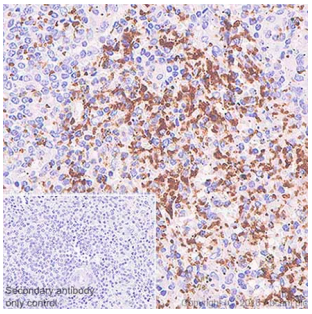
12 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD42b antibody

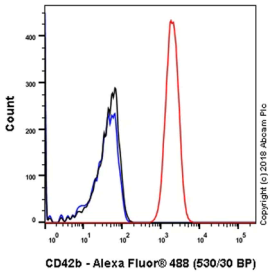
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human bone marrow tissue sections labeling CD42b with ab183345 at 1/100 dilution (1.94 µg/ml). Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the megakaryocytes in the human bone marrow, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab183345 for 10 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD42b antibody

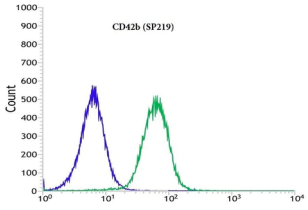
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human spleen tissue sections labeling CD42b with ab183345 at 1/100 dilution (1.94 µg/ml). Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on platelets in the human spleen, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab183345 for 10 mins at room temperature.



Flow Cytometry (Intracellular) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Flow Cytometry (Intracellular) staining using rabbit Anti-CD42b antibody

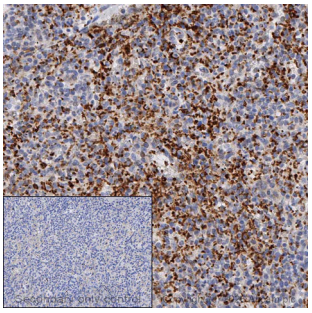
Flow cytometry analysis of HEL (human bone marrow erythroleukemia) labeling CD42b with purified ab183345 at 1/20 dilution (9.7 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG (ab172730) (Black). Unlableled control - Unlabeled cells (blue).



Flow Cytometry (Intracellular) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Flow Cytometry (Intracellular) staining using rabbit Anti-CD42b antibody

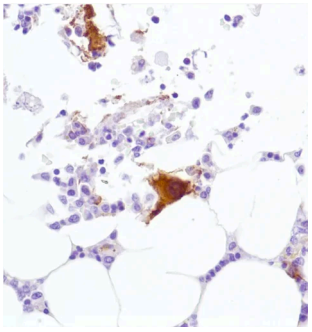
Flow cytometric analysis of rabbit anti-CD42b (SP219) antibody using ab183345 (diluted 1/400) in Jurkat cells (green) compared to negative control of rabbit IgG (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human spleen using rabbit Anti-CD42b antibody

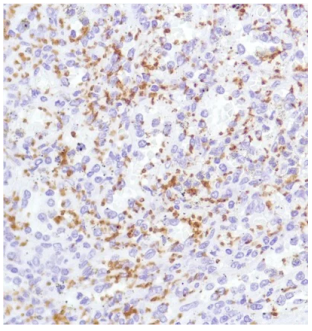
Immunohistochemical analysis of formalin fixed paraffin embedded human spleen labelling CD42b with ab183345 at a concentration of 1 µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with a OptiView DAB IHC Detection Kit. The heat-mediated antigen retrieval was conducted with at 100 °C, pH 8.5 for 32 mins. ab183345 Anti-CD42b antibody [SP219] was incubated for 16 mins, at 37 °C. Sections were counterstained with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control. Customers are encouraged to optimise antigen retrieval conditions, antibody concentration, incubation times and temperature for best results in their own IHC assay workflow (automated and manual).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD42b antibody

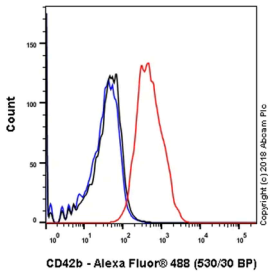
Immunohistochemical analysis of paraffin embedded human bone marrow tissue labeling CD42b with ab183345 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD42b antibody

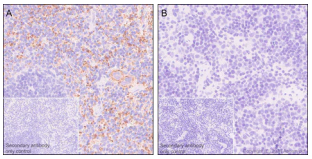
Immunohistochemical analysis of paraffin embedded human spleen tissue labeling CD42b with ab183345 at 1/100 dilution.



Flow Cytometry (Intracellular) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Flow Cytometry (Intracellular) staining using rabbit Anti-CD42b antibody

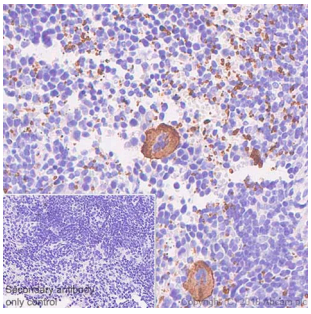
Flow cytometry analysis of mouse splenocytes cell labeling CD42b with purified ab183345 at 1/20 dilution (9.7 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as a secondary antibody. Isotype control -Rabbit monoclonal IgG (ab172730) (Black). Unlableled control -Unlabeled cells (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD42b antibody

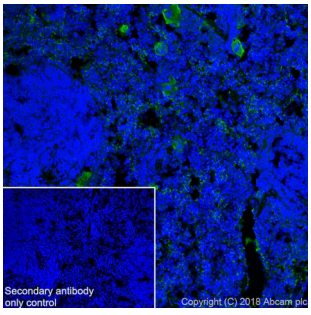
Immunohistochemical analysis of paraffin-embedded (A) Spleen tissue from wild-type C57BL/6JGpt mice, (B) Spleen tissue from CD42b knockout mice staining with ab183345 at 1/500 dilution and ready-to-use Goat Anti-Rabbit IgG H&L (HRP) secondary. Counterstaining with hematoxylin. Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins. Positive staining on (A) Spleen tissue from wild-type C57BL/6JGpt mice and no staining on (B) Spleen tissue from CD42b knockout mice. The section was incubated with ab183345 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND™ RX instrument. The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and CD42b-KO homozygous mice (Strain ID: T028631).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD42b antibody

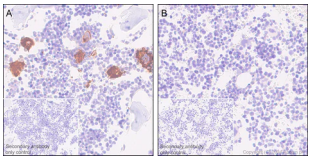
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse spleen tissue sections labeling CD42b with ab183345 at 1/100 dilution (1.94 µg/ml). Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on platelets and megakaryocytes in the mouse spleen, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab183345 for 10 mins at room temperature.



Immunohistochemistry (Frozen sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Frozen sections) staining using rabbit Anti-CD42b antibody

Immunohistochemistry (Frozen) analysis of mouse spleen tissue section labeling CD42b with purified ab183345 at 1/100 (1.9 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

CD42b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD42b antibody

Immunohistochemical analysis of paraffin-embedded (A) Bone marrow tissue from wild-type C57BL/6JGpt mice (B) Bone marrow tissue from CD42b knockout mice staining with ab183345 at 1/500 dilution and ready-to-use Goat Anti-Rabbit IgG H&L (HRP) secondary. Counterstaining with hematoxylin. Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins. Positive staining on (A) Bone marrow tissue from wild-type C57BL/6JGpt mice and no staining on (B) Bone marrow tissue from CD42b knockout mice. The section was incubated with ab183345 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND™ RX instrument. The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and CD42b-KO homozygous mice (Strain ID: T028631).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.